



ELSEVIER

Journal of Financial Markets 5 (2002) 223–257

www.elsevier.com/locate/econbase

Journal of
FINANCIAL
MARKETS

The impact of the Federal Reserve Bank's open market operations[☆]

Campbell R. Harvey^{a,b,*}, Roger D. Huang^c

^a *Fuqua School of Business, Duke University, Durham, NC 27708, USA*

^b *National Bureau of Economic Research, Cambridge, MA 02138, USA*

^c *University of Notre Dame, Notre Dame, IN 46556, USA*

Abstract

The Federal Reserve Bank has the ability to change the money supply and to shape the expectations of market participants through their open market operations. These operations may amount to 20% of the day's volume and are concentrated during the half hour known as "Fed Time". Using previously unavailable data on open market operations from 1982 to 1988, our paper provides the first comprehensive examination of the impact of the Federal Reserve Bank's trading on both fixed income instruments and foreign currencies. Our results detail a dramatic increase in volatility during Fed Time, consistent with market expectations of Fed intervention during this time interval. We find that there is little systematic difference in market impact between reserve-draining and reserve-adding operations. Additionally, Fed Time volatility is, on average, higher on days when open market operations are absent. These results suggest that the markets are potentially confused about the purpose of the open market operations during our sample period. The evidence is also consistent with the Fed

[☆] Part of this paper was written while the first author was visiting the University of Chicago and the second author was visiting MIT. We have benefited from discussions with William Christie, Tom Cosimano, Louis Ederington, Douglas Foster, Ruth Freedman, Gordon Gemmill, Spence Hilton, Randall Kroszner, Geoffrey Luce, Steve Peristiani, Stephen Schaeffer, Susana Reyes, Tom Smith, René Stulz and seminar participants at the European Finance Association Meetings in Rotterdam and the Conference on Recent Developments in Finance at the University of St. Gallen. We appreciate the comments of A. Subrahmanyam, the Editor, and an anonymous referee. Jefferson Fleming, Rob Kiesel, Chris Kirby, Chris Miller and Akhtar Siddique provided excellent research assistance. Harvey's work was partially supported by the Batterymarch Fellowship.

*Corresponding author. Fuqua School of Business, Duke University, Durham, NC 27708, USA. Tel.: +1-919-660-7768; fax: +1-919-660-7971.

E-mail address: cam.harvey@duke.edu (C.R. Harvey).

operations conveying information which smooths market participants' expectations.
© 2002 Elsevier Science B.V. All rights reserved.

JEL classification: G14; G18; G28; G13

Keywords: Federal Reserve Bank; Intervention; Market impact; Open market operations; Market expectation

1. Introduction

The goal of this paper is to investigate the impact of the Federal Reserve Bank's open market operations on the financial markets. These operations typically involve the purchase or sale of Treasury securities and can represent a substantial amount of any day's trading volume. Using new daily data on the operations, we are able to assess the impact on eight different financial markets: Treasury bill, Eurodollar, Treasury bond, and five U.S. dollar exchange rates.

The Federal Reserve Bank can be viewed as a trader with private information. This information is revealed to the market in many different ways: remarks by the Chairman of the Federal Reserve, testimony before the House and Senate Banking Committees, the release of the Beige book, the minutes of the Federal Open Market Committee (FOMC) meetings, changes in reserve requirements, changes in the discount rate, and open market operations. The last method is, by far, the primary and most actively employed policy tool of the Federal Reserve Bank in implementing its monetary policy. Therefore, our analysis provides a rare opportunity to study the effects of private information trading. Data on private trades are often unavailable and the identity of the informed traders is seldom known. In contrast, we are able to identify a major market participant with private information. We know the time interval of the day when this participant trades. We know the volume and the type of trade. With this information, we are in a position to assess the impact of the Federal Reserve Bank's operations on a number of important markets.¹

Our study contributes to the literature on the impact of Federal Reserve's monetary policy. Specifically, our sample period is nestled between two policy changes. Between 1979 and 1982, the Fed policy is to target monetary aggregates. During our sample period from 1982 to 1988, the policy target is a mixture of borrowed reserves and federal funds rates. During this period, the Fed is highly secretive about the policy making process as well as its actual policy. It believes that the release of such information is detrimental to the

¹ Formal models of market microstructure with privately informed traders are provided by Kyle (1985), Admati and Pfleiderer (1988), Foster and Viswanathan (1990), and others.

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات